



## STS-118 Launch Weather Forecast

**Vehicle:** STS-118, Endeavour

**Issued:** 7 August 2007/ 1100Z (0700EDT)

**Valid:** 8 August 2007/ 2231 - 2241Z (1831 – 1841EDT)

**Launch Weather Team:** (321) 853-8484

**Synoptic Discussion:** An area of high pressure is building in over the Gulf of Mexico and an upper level ridge is over the Eastern U.S. Moisture in the atmosphere over Kennedy Space Center (KSC) will peak today and then gradually decrease Wednesday through Friday. On launch day, the sea breeze will develop early in the afternoon and migrate well inland by launch time. Easterly flow will prevail through the atmosphere, and the main concern in this weather regime is isolated coastal showers. Overall, the weather scenario is favorable for launch, and the probability of KSC weather prohibiting launch decreased to 20%. **Our primary concern for launch day is isolated showers.**

<u>Clouds</u>	<u>Coverage</u>	<u>Bases (feet)</u>	<u>Tops (feet)</u>
Cumulus	3/8 Scattered	3,000	5,000
Alto cumulus	2/8 Scattered	6,000	8,000
Cirrus	3/8 Scattered	25,000	28,000
<b>Weather:</b> None			
<b>Visibility:</b> 7 miles			
<b>Wind:</b> 070° @ 8 P 12KT (60 foot pad winds)			
<b>Temperature:</b> 86°F		<b>RH:</b> 70%	<b>Dewpoint:</b> 75°F

<b>Probability of KSC weather prohibiting launch:</b>	<b>20%</b>
<b>Probability of KSC weather prohibiting tanking:</b>	<b>10%</b>
<b>Primary concern(s):</b>	Isolated showers.

<b>Probability of KSC weather prohibiting launch for 24-hour delay</b>	<b>30%</b>
<b>Probability of KSC weather prohibiting tanking:</b>	<b>5%</b>
<b>Primary concern(s):</b>	Isolated showers.

<b>Probability of KSC weather prohibiting launch for 48-hour delay</b>	<b>20%</b>
<b>Probability of KSC weather prohibiting tanking:</b>	<b>0%</b>
<b>Primary concern(s):</b>	Isolated showers.

<b>Sunrise:</b>	8/0648 EDT 9/0649 EDT 10/0649 EDT	<b>Sunset:</b>	8/2009 EDT 9/2008 EDT 10/2008 EDT	
<b>Moonrise:</b>	8/0210 EDT 9/0310 EDT 10/0414 EDT	<b>Moonset:</b>	8/1700 EDT 9/1758 EDT 10/1849 EDT	<b>Illumination:</b> 8 August: 20% 9 August: 12% 10 August: 6%

**Next forecast will be issued:** As needed